

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A device for pretreating a specimen, integrally comprising:
a specimen introducing portion in which a specimen is supplied and a nucleic acid is liberated from the specimen;
a holding portion in which the nucleic acid from the specimen introducing portion is held;
a wash storage in which a washing liquid to be supplied to the holding portion is stored;
an elute storage in which an eluting liquid for eluting the nucleic acid is stored;
[[and]]
a discharging portion from which the washing liquid supplied from the wash storage to the holding portion is discharged;
an extracting portion from which the nucleic acid from the holding portion is extracted; and
a vertical circuit passage, wherein the specimen introducing portion and the extracting portion are joined to a top of the passage through the holding portion, wherein the discharging portion is joined to a bottom of the passage, and wherein the wash storage and the elute storage are joined to a vertically intermediate portion of the passage.

2. (Currently Amended) A device for pretreating a specimen, comprising:

a single base;
a specimen introducing portion for liberating a nucleic acid from the specimen;
a holding portion for holding the nucleic acid;
a wash storage in which a washing liquid for washing the holding portion is stored;
an elute storage in which an eluting liquid for eluting the nucleic acid is stored;
and
a discharging portion for discharging the washing liquid,
wherein the specimen introducing portion, the holding portion, the wash storage, the elute storage, and the discharging portion are ~~provided together on~~ formed in the single base.

3. (Currently Amended) A specimen pretreatment device, comprising:
- a base;
a specimen introducing portion for liberating a nucleic acid from the specimen;
a holding portion for holding the nucleic acid;
a discharging portion for discharging a wash liquid washing the holding portion;
an extracting portion for extracting the nucleic acid held in the holding portion;
and
grooves provided in the base,
wherein, on the base, the holding portion is connected through the grooves to the specimen introducing portion, the discharging portion, and the extracting portion, respectively.

4. (Currently Amended) A device for pretreating a specimen, comprising:
- a base;
 - a specimen introducing portion for liberating a nucleic acid from the specimen;
 - a holding portion for holding the nucleic acid;
 - an extracting portion for collecting the nucleic acid from the holding portion;
 - a discharging portion for discharging a washing liquid washing the holding portion;
 - an air pump; and
 - connectors connected to the air pump,
- wherein the specimen introducing portion, the holding portion, the extracting portion, and the discharging portion are ~~provided together on~~ formed in the base,
- wherein the extracting portion and the discharging portion are connected through the respective connectors to the air pump, and
- wherein air is inhaled from the connectors so as to control a movement of the liquid on the base.
5. (New) The device according to claim 1, wherein a pump is disposed on a vertically intermediate portion of the passage.
6. (New) The device according to claim 1, further comprising:
- valves, wherein the wash storage, the elute storage and the discharging portion are joined to the passage through the respective valves.

7. (New) The device according to claim 2, further comprising:

a heater provided on the base so as to liberate the nucleic acid from the specimen supplied in the specimen introducing portion.

8. (New) The device according to claim 7, wherein the base is formed with a slope at a portion thereof extended from the specimen introducing portion, the slope being slanted downward toward the holding portion, and wherein the heater is provided on the slope.

9. (New) The device according to claim 3, further comprising:

a heater for liberating the nucleic acid from the specimen, wherein the heater is provided on a portion of the base extended from the specimen introducing portion to the groove connected to the holding portion.

10. (New) The device according to claim 9, wherein the portion of the base on which the heater is provided is sloped downward toward the groove connected to the holding portion.

11. (New) The device according to claim 4, further comprising:

a heater provided on the base so as to liberate the nucleic acid from the specimen supplied in the specimen introducing portion.

12. (New) The device according to claim 11, wherein the base is formed with a slope at a portion thereof extended from the specimen introducing portion, the slope being slanted downward toward the holding portion, and wherein the heater is provided on the slope.

13. (New) The device according to claim 4, further comprising:

grooves formed in the base, wherein the connector is connected to the extracting portion and the discharging portion through the respective grooves.

14. (New) The device according to claim 3, wherein the nucleic acid is moved from the specimen introducing portion to the holding portion by rotating the base in one of opposite directions, and wherein the nucleic acid is moved from the holding portion to the extracting portion by rotating the base in the other of the opposite directions.

15. (New) The device according to claim 3, the grooves including a first arcuate groove and a second arcuate groove, wherein the first and second arcuate grooves cross each other at the holding portion, and wherein the base is formed therein with the specimen introducing portion at one end of the first arcuate groove, with the discharging portion at the other end of the first arcuate groove, with an elute supply portion at one end of the second arcuate groove, and with the extracting portion at the other end of the second arcuate groove.

16. (New) The device according to claim 15, wherein the nucleic acid is moved from the specimen introducing portion to the holding portion by rotating the base in one of opposite directions, and wherein an eluting liquid is moved from the elute supply portion to the extracting portion so as to elute the nucleic acid from the holding portion to the extracting portion by rotating the base in the other of the opposite directions.

17. (New) The device according to claim 16, wherein the base is a rotary disk having a rotary axis, wherein the specimen introducing portion is closer to the rotary axis than the discharging portion, and wherein the elute supply portion is closer to the rotary axis than the extracting portion.

18. (New) A device for pretreating a specimen, integrally comprising:

first and second tanks, wherein either the first or second tank is selected to have a specimen supplied and electrophoresed therein; and

a holding portion for holding a nucleic acid liberated from the electrophoresed specimen, the holding portion being disposed between the first and second tanks, wherein the first and second tanks are sloped at respective bottom surfaces thereof upward to the holding portion.